

What is claimed is:

1. A Fe-Ni-Co alloy thin strip for shadow masks having high strength and a low coefficient of thermal expansion, along with excellent magnetic properties, comprising, on a mass basis, 30 to 35% Ni, 2 to 6% Co, 0.1 to 0.4% Nb, 0.2 to 0.5% Mn, and the rest Fe and unavoidable impurities, wherein the unavoidable impurities comprises 0.005% or less C, 0.002% or less S and 0.005% or less N and the grain size before etching through said strip is 7.0 to 10.0 in terms of grain size number stipulated in JIS G 0551.
2. A Fe-Ni-Co alloy thin strip for shadow masks having high strength and a low coefficient of thermal expansion, along with excellent magnetic properties, comprising, on a mass basis, 30 to 35% Ni, 2 to 6% Co, 0.1 to 0.4% Nb, 0.2 to 0.5% Mn, and the rest Fe and unavoidable impurities, wherein the unavoidable impurities comprises 0.005% or less C, 0.002% or less S and 0.005% or less N and precipitates and inclusions are 0.2  $\mu\text{m}$  to 5  $\mu\text{m}$  in size and the total mass of them is 0.5  $\mu\text{g}/\text{mm}^3$  to 1.5  $\mu\text{g}/\text{mm}^3$ .
3. The Fe-Ni-Co alloy thin strip for shadow masks having high strength and a low coefficient of thermal expansion, along with excellent magnetic properties according to claim 2, wherein the grain size before etching through said strip

is 7.0 to 10.0 in terms of grain size number stipulated in JIS G 0551.

4. The Fe-Ni-Co alloy thin strip for shadow masks having high strength and a low coefficient of thermal expansion, along with excellent magnetic properties according to any one of claims 1 to 3, further comprising 0.03 to 0.10% Si in the solid solution state.